

MASNER, Liboslav (Gottwaldov)

Effect of machinery on the economic indexes of tanneries.
Kozarstvi 13 no. 11: 336-339 N '63.

MASNER, Liboslav (Gottwaldov)

Testing and evaluating leather; principles of leather
standardization. Kozarstvi 13 no. 11: 346-347 N '63.

MASNER, Liboslav (Gottwaldov)

Testing and evaluation of leather; principles of leather
standardization. Kozarstvi 13 no.12:382 D'63.

MASNER, Liboslav (Gottwaldov,

Testing and evaluation of leather, the basis of leather
standardization. Kczarstvi 14 no.1:28 Ja'64.

MASNER, Liboslav, (Gottwaldov)

Discussion on fat liquoring. Kozarstvi 14 no. 2: 42-43
F '64.

Testing and evaluation of leather, principles of leather
standardization. Ibid.: 59.

MASNER, Liboslav

Testing and evaluation of leather; principles of leather
standardization. Kozarstvi 14 no. 5:154-155 My '64.

MASNER, Liboslav

Testing and evaluation of leather; principles of leather
standardization. Kozarstvi 14 no.8:247-248 Ag '64.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001032810011-4

MASNEH, Liboslav (Gottwaldov)

Vacuum leather drying. Kozarstvi 14 no.9; 274-276 Apr '64.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001032810011-4"

MASNER, Liboslav (Gottwaldov)

Testing and evaluating leather are principles of leather standardization. Kozarstvi 14 no.10:309-311 O '64.

MASNER, L.

"First preliminary report on the occurrence of genera of the group
Proctotrupoidea (Hym.) in Czechoslovakia. Pt. 1. Family Scelionidae.
In English."

SPORNÍK FAUNISTICKÝCH PRACÍ. ACTA FAUNISTICA ENTOMOLOGICA, Vol. 1, 1956
Praha, Czechoslovakia

Monthly list of EAST EUROPEAN ACCESSION INDEX (EEAI), Library of Congress,
Vol. 8, No. 7, July, 1959

Unclassified

MASNER, L.

"First preliminary report on the occurrence of genera of the group
Proctotrupoidea in Czechoslovakia (Second part, Superfamily proctotrupoidea
s. str.); Hymenoptera, Proctotrupoidea. In English."

p. 83 (Sbornik Faunistickych Praci. Acta Faunistica Entomologica, No. 2, 1957,
Praha Czechoslovakia.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6 June 1958.

MASNER, Lubomir, Dr., C.Sc. (Na cicisti 2, Praha 6)

The genera Gryon Hal., Idris Forst. and Hemisius Westw. (Hym.,
Scelionidae). Cas entom 58 no.2:157-168 '61.
(EEAI 10:9)

1. Laboratory of Insect Pathology, Institute of Biology of the
Czechoslovak Academy of Sciences.

(Hymenoptera)

MASNER, Lubomir, CSc.

A comparison of some Nearctic and Palearctic genera of Proctotrupoidea
(Hymenoptera) with revision notes. Cas entom 61 no.2:123-155 '64

1. Institute of Entomology, Czechoslovak Academy of Sciences, Prague
6, Na cvicisti 2.

MASNIKOSA, Vukasin

Possibility of triggering the bistable circuits on the basis of
dynatron characteristics. Bul Inst Nucl 12:131-136 O '61.

1. The Institute of Nuclear Sciences "Boris Kidrich," Department
of Automation, Vinca.

MASNIKOSA, Vukasin, dipl. inz. el.

Organization of arithmetic units for binary coded numbers.
Automatika 5 no.3 & 204-209 '64

1. Mihailo Pupin Institute, Belgrade, Volgina 15.

MASNIKOVA, V.

First International Telemetering Conference (ITC).
Automatika 4 no. 5/6 371 '63.

MASNY, JAN

POLAND/General Problems of Pathology - Allergy.

T-2

Abs Jour : Ref Zhur - Biol., No 3, 1956, 12562

Author : Masny, Jan

Inst : Not given

Title : Allergic Reaction and Anaphylactic Shock After Penicillin Administration.

Orig Pub : Wiedom. lekar., 1956, 9, No 24, 1115-1119.

Abstract : Cases of increased sensitivity to penicillin have different manifestations; they range from skin eruptions to severe anaphylactic shock which is sometimes fatal. Increased sensitivity is particularly frequent to the procaine salts of Penicillin; this may be explained by this compound having a high molecular weight as well as by the presence of undissolved crystals 11-14 micra in diameter which upon entry into the vein may lead to shock. Allergic reaction

Card 1/2

POLAND/General Problems of Pathology - Allergy.

T-2

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12562

to penicillin is quite common in subjects who have previously received penicillin or in those with a history of hayfever, bronchial asthma, etc. It is recommended that a careful history in this direction be taken before administration, and that in doubtful cases a cutaneous or intracutaneous penicillin sensitivity test be performed. Five cases of shock are described, two of them with fatal termination 10 minutes after onset and several hours after the intramuscular injection of penicillin.

Card 2/2

KARDASZEWCZ, Stefania; MASNY, Natalia

Pyruvic acid level in the blood and attempted use of cocarboxylase
(berolase) in circulatory insufficiency. Polski tygod.lek. 16 no.5:
165-167 30 Ja '61.

1. Z I Kliniki Chorob Wewnetrznych Sl. A.M. w Zabrze; kierownik:
prof. dr Jozef Japa.
(PYRUVATES blood)
(COCARBOXYLASE ther)
(HEART FAILURE CONGESTIVE ther)

STAS, Jerzy; GRABSKI, Jozef; MASNY, Natalia

Effect of experimental, hypothyroidism and of the administration of thyroxin on the level of proteins, lipoproteins and electrolytes in the blood serum of rats. Endokr. pol. 13 no.4:433-444 '62.

1. Katedra i Klinika Chorob Wewnetrznych Slaskiej AM w Katowicach
Kierownik: prof. dr J.Japa Katedra i Zaklad Patologii Ogolnej i
Doswiadczałnej Slaskiej AM w Zabrusz Kierownik: doc. dr B. Narbut.
(THYROIDECTOMY) (THYROXIN) (BLOOD PROTEINS)
(LIPOPROTEINS) (ELECTROLYTES)

SINGER, Zbigniew; MASNY, Natalia; KARDASZEWICZ, Ewa

Activity of lactic acid dehydrogenase in sera of patients with
leukemia and other hematological diseases. Pol. tyg. lek. 17
no.4:121-124 22 Ja '62.

1. Z I Kliniki Chorob Wewnetrznych Sl. AM w Zabrze; kierownik: prof.

dr Jozef Japa.

(DEHYDROGENASES blood) (LEUKEMIA blood)
(BLOOD DISEASES)

SINGER, Zbigniew; MASNY, Natalia; MADEJSKI, Tadeusz

Activity of serum lactic dehydrogenase (SLD) in cancer patients before
and after surgery. Pol. tyg. lek. 17 no.34:1329-1333 20 Ag '62.

1. Z I Kliniki Chorob Wewnetrznych; kierownik: prof. dr J. Japa
i z II Kliniki Chirurgicznej Slaskiej AM kierownik: prof. dr
J. Gasinski.

(LACTATE DEHYDROGENASE) (NEOPLASMS) (ENZYME TESTS)

KARDASZEWICZ, Ewa; MASNY, Natalia; SINGER, Zbigniew

Lactic acid dehydrogenase in the light of clinical studies. Pol. arch.
med. wewnetr. 32 no.1:31-36 '62.

1. Z I Kliniki Chorob Wewnetrznych Slaskiej AM Kierownik: prof. dr.
med. J. Japa.

(LACTIC DEHYDROGENASE blood)

PALUCH, Jan; MASNY, Natalia

Review of methods of determining sulfur compounds in atmospheric air. Gaz woda techn sanit 37 no.12:410-414 D '63.

1. Department of Sanitation Engineering, Technical University,
Gliwice.

SIMKO, J. (Kosice, Fakultna nemocnica); MASNYK, S.; NICAK, A.; MUDr.

Oxytocic and oxytocinolytic activity of blood serum in pregnant women after the treatment with several hormones with special reference to the induction of labor. Cesk. gynek. 30 no.1:69-72 Mr'65.

1. Gyn.-por. klinika (prednosta: doc. dr. K. Poradovsky, CSc.); Katedra farmak. (veduci :MUDr. A. Nicak) Lekarske fakulty University P.J.Safarika v Kosiciach.

L 13588-65

ACC NR. AP6006088

SOURCE CODE: CZ/0053/65/011/004/0315/0315

15

B

AUTHOR: Simko, J.; Masnyk, S.; Nicak, A.

ORG: Institute of Pharmacology, Faculty of Medicine, Safaryk University, Kosice
(Farmakologicke ustanov Lek. fak. Univerzity P. J. Safarika)

TITLE: Effect of exogenous oxytocin on the serum oxytocinase effect in some months of pregnancy [This paper was presented during the Twelfth Pharmacologic Days, 26 Jan 65.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 315

TOPIC TAGS: biologic reproduction, endocrinology, hormone, man, obstetrics, enzyme, animal physiology

ABSTRACT: In 28 pregnant women at term, serum oxytocinase activity was determined before and 2 hours after intravenous infusion of oxytocin. Results indicated that during some stages of pregnancy, the effect of oxytocin on the uterus depends not only on the functional state of the myometrium but also on the serum oxytocinase level. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Conf 1/1 H.W.

CZECHOSLOVAKIA

NICAK, A.: MASNYK, S.; Department of Pharmacology, Medical Faculty of the University of P.J. Safarika (Farmakologicky ustanov Lek. fak. univ. P.J. Safarika), Kosice.

"Changes in the Analgesic Effectiveness of Morphine During Development in Rats and Effect Thereon of Chlorpromazine and Reserpine Administration During the First Days of Life."

Prague, Ceskoslovenska Fysiologie, Vol 14, No 5, Oct 1965; p 379.

Abstract: Analgesic activity of morphine in rats, 2, 4 or 8 mg/kg subcutaneously to painful ultrasound stimuli decreased between the 14th and the 32nd days of life, then became more pronounced between the 60th and the 90th days. Early decrease in analgesia could be counteracted with chlorpromazine or reserpine. 1 U.S. reference. Paper presented at the 12 Pharmacology days, Smolenice, 29 Jan 65.

1/1

- 41 -

CZECHOSLOVAKIA

MASNYK, St.; GROSSMANN, V.; Chair of Pharmacology, Medical Faculty PJ Safarik University (Katedra Farmakologie LF UPJS), Kosice; Chair of Pharmacology, Medical Faculty, Charles University (Katedra Farmakologie LF KU), Hradec Kralove.

"To the Distribution of Isoniazid in Extrauterine Ontogenesis of Rats."

Prague, Geskoslovenska Fysiologie, Vol 15, No 5, Sep 66, pp 414 - 415

Abstract: Experiments were conducted on rats aged 3 and 6 weeks, and on adult rats. Isoniazid was administered intravenously in the amount of 100 mg/kg. The concentration of isoniazid in the blood of adult rats was 1.8 times higher than in 3 week old and 1.5 times higher than in 6 week old rats. The brain levels were higher in the 3rd and 10th minutes after administration; differences were observed only between adult and 3 week old rats. The distribution in 6 week old and adult rats is nearly identical. 1 Figure, 4 Western, 2 Czech references. Submitted at 14 Days of Pharmacology at Smolenice, 16 Feb 66.

1/1

- 47 -

Masnyy, F.G.

AUTHOR: Masnyy, F.G. (Leningrad)

47-6-6/37

TITLE: On the Study of the Plastic Properties of Metals (K izucheniyu
plasticheskikh svoystv metallov)

PERIODICAL: Fizika v Shkole, 1957, # 6, pp 29-36 (USSR)

ABSTRACT: In the course of practical training in secondary schools, the students in the 8th grade get some knowledge of the cold machining of metals by cutting, and become acquainted with instruments and tools. In the 9th grade they are taught other important methods of metal treatment; cold stamping, forging, rolling, drawing, etc. However, only a part of each lesson is assigned to the study of the plastic properties of metals.

The purpose of this article is to make the instructors acquainted with the basic methods of utilizing such properties. The author admits that the information furnished is too extensive to be conveyed during a lesson, but it may be of use to teachers working under conditions of different industrial surroundings.

The author then explains in detail the procedure to be adopted in conveying to the students supplementary information on the various methods of treating metals.

Card 1/2

On the Study of the Plastic Properties of Metals

47-6-6/37

He deals with the process of drawing wire and the strengthening of metals as a result of pressing. In this connection the author refers to the experience of the 9th grade of the 162nd, 157th and 210th secondary schools of Leningrad.

In the Soviet Union, the technology of continuous casting of steel was developed under the direction of the Academician I.P. Bardin and applied at the Novotul'skiy Metallurgical Plant and the "Krasnoye Sormovo" Plant at Gor'kiy. The engineers of the latter have figured out that the continuous casting of 85000 t steel per year will give an additional 9000 t of sheet steel. This will save 14 million rubles.

There are 9 Russian references and 12 figures.

AVAILABLE: Library of Congress

Card 2/2

MASNYY, Ya.I., inzh.

Efficiency of using tractors with semitrailers. Trudy MEI
no.16:109-115 '61. (MIRA 14:12)
(Tractor trains)

MASOJIDEX, B

"Technicians at the Head of Socialist Competition" p. 164 (STROJIRENSTVI, Vol. 3, No. 3, March 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, IC, Vol. 3, No. 5, May 1954, Unclassified

MASOJIDEK, B.

"Socialist Competition in Factories of the Ministry of the Heavy Machinery Industry During the Year 1952." p. 296 (Strojirenstv, Vol. 3, no. 4, Apr. 1953, Praha)

SO: Monthly List of European Accessions, Vol. 3, No. 3
Library of Congress, March 1954
~~1953~~, Uncl.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001032810011-4

"Organizing the initiative of workers in the most important sections." (p. 139)
CESKOSLOVENSKY PRUMYSL (Ministerstva tezkeho prumyslu) Praha, Vol 7, No 4,
Apr. 1954.

SO: East European Accessions List, Vol 3, No 8, Aug 1954

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001032810011-4"

MASOJ IDEK, K. MAROVA, E.

Fighting maneuvres in a MIG 5! p. 358.

-jfj-. They were participating in the 3d National Glider contest. p. 360.

Parachutes over the stadium. p. 361.

(Kridla Vlasti. No. 12, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

MASOJIDEK, K.

Our boys on jets. p. 546. (KRIDLA VLASTI, No. 12, Sept 1957, Praha,
Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Unci.

MASOJÍ DEK, KARE

OSCEH/3-59-15-11/32

* 17(1)

AUTHOR: Marová, Engr. Masojídet, Karel

TITLE: A Short Visit at the Aviation Medicine Institute

PERIODICAL: Křídla Vlasti, 1959, Nr. 15, PP 10-11 (CSB)

ABSTRACT:

During a visit at the rehabilitation section of the DSR Aviation Medicine Institute, the author interviewed the chief physician Dr. Tule and physical therapy instructor J. J. Rostok. The patients are mostly pilots. The chief objectives of the section are to make the disabled period after an illness or injury as short as possible, to return a sufficient mobility to the affected joints and muscles, and to restore the nerve function. To achieve all this, electrotherapy, thermotherapy, congestration, massage and motion therapy are applied. Ionotherapy is applied in cases of peripheral paralysis and minor muscular and limb stiffness. All patients, including those with heart disease and those recovering from infarcts, must perform daily exercises which are prescribed individually.

Card 1/3

A Short Visit at the Aviation Medicine Institute OSCEH/3-59-15-11/32

The extent of an injury is determined either by a muscle test or by testing the mobility of the joints. The motion therapy is always passive at first, beginning with a practical demonstration on the patient's own body by the physical therapist. Prior to the exercises, each patient is informed of the purpose of the exercise and about the nature of his illness or injury. Many patients have to continue the exercises after their release from the section. Frequently, the released patients have to return for a check-up. The most satisfactory results have so far been achieved by the department of the field of classic neurotic diseases. Some time ago, a leading DSR parachutist with an injury so far not described in medical literature was treated. This individual had injured the nerve tissue of one of his arms during a parachute jump in which the parachute opened too late. His arm was hit with great force by the back strap of the parachute. The resulting injury was such that there were doubts as to whether the parachutist would ever be able to use the arm again.

Card 2/3

A Short Visit at the Aviation Medicine Institute OSCEH/3-59-15-11/32

However, by conducting physical exercises twice each day, and by being fully cooperative, the parachutist, left arm only, weeks with the arm almost completely healed. Only the shoulder-blade continued to trouble him to some extent. There are 8 photos.

Card 3/3

KUKINOV, V.M.; MASOKIN, V.I.; ZHURIN, N. Ya.; RODZEVILLO, I.T.

New equipment and progressive technology. Bezop. truda v
prom. 8 no. 9:31-33 S '64 (MIRA 18:1)

1. Nachal'nik Gubkinskoy rayonnoy gornotekhnicheskoy inspeksii
(for Kukinov). 2. Shakhta imeni Gubkina (for Masokin, Zhurin,
Rodzevillo).

MASOL, V.A., inzh.; BLAGOVESHCHENSKIY, Yu.Ye., inzh.

Increasing the reliability and durability of machinery. Mashino-
stroenie no. 5:5-7 S-0 '64 (MIRA 18:2)

MASOL, V.A.

Main road for the development of new equipment. Standardizatsiya
29 no.8:62-63 '65. (MIRA 18:10.)

1. Direktor Novokramatorskogo mashinostroitel'nogo zavoda,

MASOL'NIKOVA, T. K.

Masol'nikova, T. K.

"A Study of the Infection of the Soil with Geohelminth Eggs in Various Parts of Leningrad Using Various Systems of Sewage Removal." Min Health RSFSR. Leningrad Sanitary-Hygiene Medical Inst. Leningrad, 1955. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

MASOL'NIKOVA, T.K.

BATMANOVA, O.Ya.; ~~MASOL'NIKOVA, T.K.~~; MOSKOVSKAYA, K.A.

Investigation of soil and water sources of Vsevolozhskiy District,
Leningrad Province. Trudy ISGMI 26:133-145 '56. (MIRA 10:6)

1. Kafedra obshchey gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - chlen-korrespondent
AN SSSR, prof. R.A.Babayants.

(WATER SUPPLY,

soil & water hyg. in sources of municipal water supply
(Rus))

MASOL'HIKOVA, T.K.

Problem of helminth infection of the population. Trudy LSGMI 26:
183-192 '56.
(MLRA 10:6)

1. Kafedra obshchey gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - chlen-korr.
AMN SSSR, prof. R.A.Babayants.
(HELMINTH INFECTIONS, epidemiology,
in Russia (Eng))

MASOL'NIKOV, T.K.

BABAYANTS, R.A., professor; BATMANOVA, O.Ya., kand.med.nauk; VOLKOVA, N.V., kand.med.nauk; KIYAMOV, N.V., kand.med.nauk; LYKOVA, A.S., kand.med.nauk; MASOL'NIKOVA, T.K., kand.med.nauk; RUDENKO, V.A., kand.med.nauk; TOMILINA, K.A., kand.med.nauk; SHISTOVSKIY, S.P., kand.med.nauk; KIRPICHEV, M.P., sanitarnyy vrach; MAKHINENKO, A.I., sanitarnyy vrach; OSHCHEPKOV, A.A., sanitarnyy vrach; PETROV, A.M., sanitarnyy vrach; ROSHAL', M.A., sanitarnyy vrach; SHEPELIN, O.P., sanitarnyy vrach

Sewage irrigation of fields and sanitation of natural waters. Gig.
i san. 22 no.9:64-67 " 57. (MIRA 10:12)

1. Zaveduyushchiy kafedroy Obshchey Gigiyeny Leningradskogo
sanitarno-gigiyenicheskogo meditsinskogo instituta, chlen-
korrespondent AMN SSSR (for Babayants)

(WATER SUPPLY WATER POLLUTION

sanitary protection of water reservoirs in use of sewage
water for field irrigation)

(IRRIGATION
same)

MASOL'NIKOVA, T.K., kand.med.nauk; TOMILINA, V.A., kand.med.nauk

Soil as a preserver and transmitter of infection. Med.sestra
19 no.4:38-40 Ap '60. (MIRA 13:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut sanitarnogo
prosveshcheniya Ministerstva zdravookhraneniya SSSR, Moskva.
(SOILS--BACTERIOLOGY)

VOLKOVA, N.V.; DIKUN, P.P.; MASOL'NIKOVA, T.K.

Aerosols and carcinogenic substances in the air of cities.
Trudy LSGMI no. 58:136-148 '60. (MIRA 14:11)
(LENINGRAD—AIR POLLUTION) (CARCINOGENS)
(AEROSOLS)

MASOLOV, V.P.

~~Transformers of nature. Vypel 11 no.18:14-15 S '48.
(MIRA 12:9)~~

(Plant breeding)

KATSOBASHVILI, Ya.R.; KURKOVA, N.S.; LIKHOBARENKO, V.S.; LEVITSKIY,
S.A.; GOLOSOV, S.A.; MASOLOVA, F.A.; NAZAROV, G.I.

Apparatus for washing filter residues of high hydraulic
resistance. Khim.prom. no.4:340 Je '60.

(MIRA 13:8)

(Filters and filtration)

KATSO-BASHVILI, Ya.R. (Moskva); KURKOVA, N.S. (Moskva); LEVITSKIY, B.A.
(Moskva); LIKHOBABENKO, V.S. (Moskva); MASOLOVA, F.A. (Moskva)

Preparing a mechanically resistant alumina-molybdenum catalyst.
Izv. AN SSSR, Otd. tekh. nauk. Met. i topl. no.5:234-238 S-0 '60.
(Catalysts) (Molybdenum compounds)

KATSORASHVILI, Ya.R.; KURKOVA, N.S.; LIKHOBARENKO, V.S.; LEVITSKIY, E.A.;
KUZ'MINA, T.N.; KUKHTICHEVA, V.F.; MASOLOVA, F.A.

Effect of the conditions under which the hydroxide precipitates on
the mechanical durability of aluminum oxide. Izv. AN SSSR. Otd.
khim. nauk no.2:245-250 F '61. (MIRA 14:2)

1. Institut neftekhimicheskogo sintesa AN SSSR.
(Alumina)

MASOLOVA, Taisiya Stepanovna, doyarka; LYKOV, V.N., red.; POPOV,
V.N., tekhn. red.

[How I obtain high milk yields] Kak ia dobivaius' vysokikh
nadoev moloka. Tambov, Tambovskoe knizhnoe izd-vo, 1959.
37 p. .
(MIRA 16:4)

1. Kolkhoz "Zavet Il'icha" Michurinskogo rayona (for
Masolova).
(Tambov Province--Dairying)

PONOMAREV, P.U.; VAL'TSEV, A. M.; MASONOV, M.A.; MERKULOVA, Ye. S.; SAVCHENKO, A.S.; DUKHANIN, A.S.; AKHTYRSKIY, V.I.

Rolling of square blanks made by continuous casting. Biul. TSNIICHEM no. 8:43 '58. (MIRA 11:?)

1. Kramatorskiy metallurgicheskiy zavod im. Kuybysheva(for Ponomarev, Val'tsev, Masonov, Merkulova, Savchenko). 2. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii(for Dukhanin, Akhtyrskiy). (Rolling(Metalwork))

MASONYI, EMIL.

MASONYI, EMIL. Wasserkraftwerke. (Obers. von I. Pap, K. Reimholz) Budapest,
Verlag der Ungarischen Akademie der Wissenschaften. (Hydraulic-power plants.
In German. Tr. from the Hungarian. illus., ports., bibli., diagrs. (in
pocket), indexes, tables)

Vol. 1. (Low-pressure installations) 1956. 872 p.

TECHNOLOGY
Budapest, Hungary

Sc: East European Accession, Vol. 6, No. 5, May 1957

STEPAN, Jan; FRIDRICH, Eduard; MASOPUST, Jaroslav; MUSIL, Frantisek

Mineral metabolism in guinea pigs. Cas. lek. cesk. 93 no.22-23:
610-616 4 June 54.

1. Z Ustavu lekarske chemie university Karlovy, poboicky v Plazni a
Zkusobni a kontrolni sekce Vyskumneho ustavu organickych synthez
Pardubice-Rybitvi.
(ELECTROLYTES, metabolism,
in guinea pigs)

MASOPUST, J (technicka spoluprace Z. Baresova)

Changes in γ -globulin in childhood. I. Methods & physiological values.
Cesk. pediat. 14 no.2:147-155 5 Feb 59.

1. Ustav vyzkumu vyvoje dítěte fakulty dětského lékařství KU v Praze,
reditel prof. dr. Josef Houstek.
(GAMMA GLOBULIN
changes in childhood, determ. method & physiol. values (Cz))

MASOPUST, J.; VOLNA, G.

Changes of gamma globulin in childhood. II. Hypogammaglobulinemia
in eczema in children. Cesk.pediat. 15 no.4:289-295 Ap '60.

1. Ustav vyzkumu vyvoje dítěte fakulty dětského lékařství KU a
II. dětská klinika v Praze, prednosta prof. dr. J. Houstek.

(AGAMMAGLOBULINEMIA in inf.& child.)
(ECZEMA in inf.& child.)

HOMOLKA, J.; MASOPUST, J.; MOJZIS, J.

Paper electrophoresis of proteins. A procedure applicable in practice. Cas.lek.cesk. 99 no.3/4:78-83 22 Ja '60.

1. Ustredni laborator fakultni polikliniky v Praze, prednosta doc.dr. J. Homolka. Ustav vyzkumu vyvoje ditete pri fakulte detskeho lekarstvi v Praze, reditel prof.dr. J. Houstek.
(BLOOD PROTEINS chem.)

MASOPUST, J.; TOMASOVA, H.; BRACHFELDOVA, J.; STANINEC, M.

The value and determination of ornithin-carbamyl-transferase in
children. Acta univ. carol.[Med] no.2:263-272 '61.

1. Ustav vyzkumu vyvoje dítěte fakulty dětského lékařství University
Karlových, ředitel prof. MUDr. J. Houšek II dětská klinika fakulty
dětského lékařství University Karlových, prednosta prof. MUDr. J. Houšek
Klinika infekčních nemocí fakulty dětského lékařství prednosta prof.
MUDr. J. Prochazka.

(TRANSFERASES blood)

MASOPUST, J.

Development of serum protein spectrum during childhood. Rev. czech.
med. 8 no. 3:214-225 '62.

1. Research Institute of Child Development at the Paediatric Faculty,
Prague; Director: Prof. Dr. J. Houstek.
(BLOOD PROTEIN ELECTROPHORESIS)
(LIPOPROTEINS) (GLYCOPROTEINS)

MASOPUST, J.; KOTTOVA, V.; RASKA, B.

Loss of plasma proteins through the digestive tract. Cesk. pediat.
17 no.10:865-873 O '62.

1. Ustav vyzkumu vyvoje dítěte při fakultním dětském lékařství KU v Praze, ředitel prof. dr. J. Houštek Katedra fakultní pediatrie KU v Praze, přednosta prof. dr. J. Houštek Katedra nemocniční pediatrie KU v Praze, přednosta prof. dr. J. Svejcar.

(BLOOD PROTEIN ELECTROPHORESIS) (FECES)
(IMMUNOELECTROPHORESIS) (GASTROENTEROLOGY)

MASOPUST, J.

Biochemical basis of congenital metabolic diseases. Cesk.
pediat. 18 no.5:412-416 My '63.

1. Ustav vyzkumu vyvoje dítěte pri fakultě dětského lékařství
KU v Praze, ředitel prof. dr. J. Houštek. Ústřední biochemická
laboratoř dětské fakultní nemocnice v Praze, vedoucí MUDr.

J. Masopust.

(DNA) (METABOLIC DISEASES) (RNA)
(CELL NUCLEUS) (PROTOPLASM)
(PROTEIN METABOLISM DISORDERS)

MASOPUST, J.

Hereditary variations in blood proteins. Cesk. pediat. 18
no.5:430-431 My '63.

1. Ustav vyzkumu vyvoje dítěte pri fakultě dětského lekarství
KU v Praze, ředitel prof. dr. J. Houšek. Ústřední biochemická
laboratoř dětské fakultní nemocnice v Praze, vedoucí MUDr.

J. Masopust.

(BLOOD PROTEINS) (HEMOGLOBINS, ABNORMAL)
(METHEMOGLOBINEMIA) (CERULOPLASMIN)
(ANEMIA, SICKLE CELL) (GENETICS, HUMAN)

RASKA, B.; MASOPUST, J.; MYDLIL, V.

Contribution to the etiology of idiopathic hypoproteinemia
in children. Cas. lek. cesk. 102 no.36:986-992 6 S '63.

1. I detska klinika fakulty detskeho lekarstvi KU v Praze,
prednosta prof. dr. J. Svejcar Ustav pro vyzkum vyvoje dítěte
v Praze, prednosta prof. dr. J. Houštek.

(BLOOD PROTEIN DISORDERS) (CELIAC DISEASE)
(PANCREATIC CYSTIC FIBROSIS) (DYSPEPSIA)
(FECES)

BOR, Imrich; MASOPUST, Jaroslav

Congenital methemoglobinemia. Biochemical and clinical study.
Acta Univ. Carol. [med.] (Praha) 10 no.1:75-85 '64.

1. II. detska klinika fakulty detskeho lekarstvi University
Karlov v Praze (predhosta: prof. MUDr. J.Houstek, DrSc)
a Ustav vyzkumu vyvoje ditete fakulty detskeho lekarstvi Uni-
versity Karlov v Praze (reditel: prof. MUDr. J. Houstek, Dr Sc.)

BOR,J.;MASOPUST,J.

Differentiation of types of congenital methemoglobinemia. Cesk.
pediat. 19 no.3:233-238 Mr'64

1. II. detska klinika fakulty detskeho lekarstvi KU v Praze
(prednosta:prof.dr.J.Houstek, DrSc.); a Biochemicka laborator
detske fakultni nemocnice v Praze (vedouci: MUDr. J.Masopust,
CSc.).

X

HOUSTEK, J.; TOMASOVA, H.; MASOPUST, J.; VAVROVA, V.

Mucoproteins in the digestive tract in pancreatic cystic fibrosis. Cesk. pediat. 19 no. 7:585-593 Jl '64

1. Ustav vyzkumu vyvoje dítěte a katedra fakultní pediatrie fakulty dětského lekarství KU [Karlový universita] v Praze (vedoucí: prof. dr. J. Houštek, DrSc.); Ustřední biochemická laboratoř dětské fakultní nemocnice v Praze (vedoucí: MUDr. J. Masopust, CSc.)

MASOPUST, Karel

Forty years of the Czechoslovak air transport. Letecky ořez 7 no.
10:290-295 0 '63.

LUKAS, Augustin, inz.; MASOPUSTOVA, Ingrid, inz.

Some information from the 16th International Dairy Congress in Copenhagen. Prum potravin 14 no.4:206-209 Ap '63.

1. Vyzkumny ustav mlekarensky, Praha.

MASOVATOVA, S.S., Cand Med Sci -- (diss) "On the problem
of tissue metabolism in antracosilicosis." Rostov-on-Don,
16 pp (Rostov-on-Don State Med Inst) 200 copies (KL, 34-79, 11c)

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KOLENTSEV, Mikhail Timofeyevich; MASOVICH, Feliks Zinov'yevich;
RYKOV, Boris Vasil'yevich; BLAGOVESHCHENSKIY Roman
Viktorovich; ABRAMOV, V.I., inzh., otv. red.;
BOLDYREVA, Z.A., tekhn. red.

[Coal cutter loader K56M] Ugol'nyi kombain K56M. Moskva,
Gosgortekhizdat, 1963. 134 p. (MIRA 17:3)

L 38453-66

ACC NR: AP6024402

SOURCE CODE: UR/0219/66/062/007/0030/0034

AUTHOR: Chernova, G. G.; Kirzon, M. V.; Mass, A. M.

ORG: Department of Animal Physiology, Moscow State University (Kafedra fiziologii zhivotnykh Moskovskogo gosudarstvennogo universiteta)

TITLE: Respiratory afferent dorsal root impulsation during excess intrapulmonary oxygen pressure 22

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 62, no. 7, 1966, 30-34

TOPIC TAGS: human physiology, respiratory physiology, pressure breathing, neurophysiology, ~~excess pressure apnea, apnea~~

ABSTRACT: Reflex apnea occurring in response to the onset of increased intrapulmonary pressure (≥ 5 mm Hg) results from inhibition of the respiratory center by afferent pulses from the vagus nerve. Its duration is affected by afferentation from the subcarotid zone, but not by afferentation from the dorsal nerve roots. Afferent impulsation in the dorsal nerve roots at the thoracic level during excess-pressure apnea was studied in nembutal-anesthetized (30 mg/kg intraperitoneally) cats. Intrapulmonary O₂ pressures of 5, 10, 20, and 30 mm Hg were used. After laminectomy from T₃ to T₇, dorsal roots were resected at the point of insertion into the spinal cord and the ends teased into thin bundles of fibers from which impulsation was recorded

Card 1/2

UDC: 612.24:612.275]:612.283

L 38453-66

ACC NR: AP6024402

with bipolar leads. Under normal respiratory conditions, afferent impulsion (currents of 50 to 200 μ v in four or more afferent units of a bundle) was recorded in the dorsal roots (during inspiration in 21, expiration in 7, and continuously in 12 of 40 animals). During excess intrapulmonary pressure, total electrical activity in the dorsal roots increased, not with passive stretching of the rib cage due to internal pressure, but with active contraction of the intercostal muscles while the rib cage was stretched. Evidently this activity originates with muscle spindles capable of responding not only to tension but also to γ -activated muscle contraction, which is probably a more decisive factor during excess intrapulmonary pressure than stretching. This increase in total electrical activity in dorsal root fibers during inspiration is due both to more frequent discharge of active afferent units and to the participation of new units, either high-threshold spindles or tendon receptors. No dorsal root activity was seen during apnea. The reason for this is unclear, unless muscle spindles do not respond to extreme passive tension on the muscle alone. It is known that many expiratory discharges in dorsal root fibers result from the activity of spindles located in and responding to stretching of inspiratory muscles. If this is true of the expiratory units recorded in this study, then both the disappearance of their activity during excess intrapulmonary pressure and the absence of inspiratory activity during apnea are due to extreme stretching. Orig. art. has: 2 figures.

[DP]

SUB CODE: 06/ SUBM DATE: 31Dec64/ ORIG REF: 007/ OTH REF: 011/ ATD PRESS: 5043

Card 2/2 MCLP

MASS, A. Z.

"Puncture of the Thoracic Wall in Pneumothorax,"
Sov. Med., No. 7, 1949. Moscow, -c1949-.

MASS, B. B.

MASS, B. B. -- "Gunshot Wounds of the Knee Joint." Sub 1 Apr 52, Central Inst for the Advanced Training of Physicians. (Dissertation for the Degree of Candidate in Medical Sciences.)

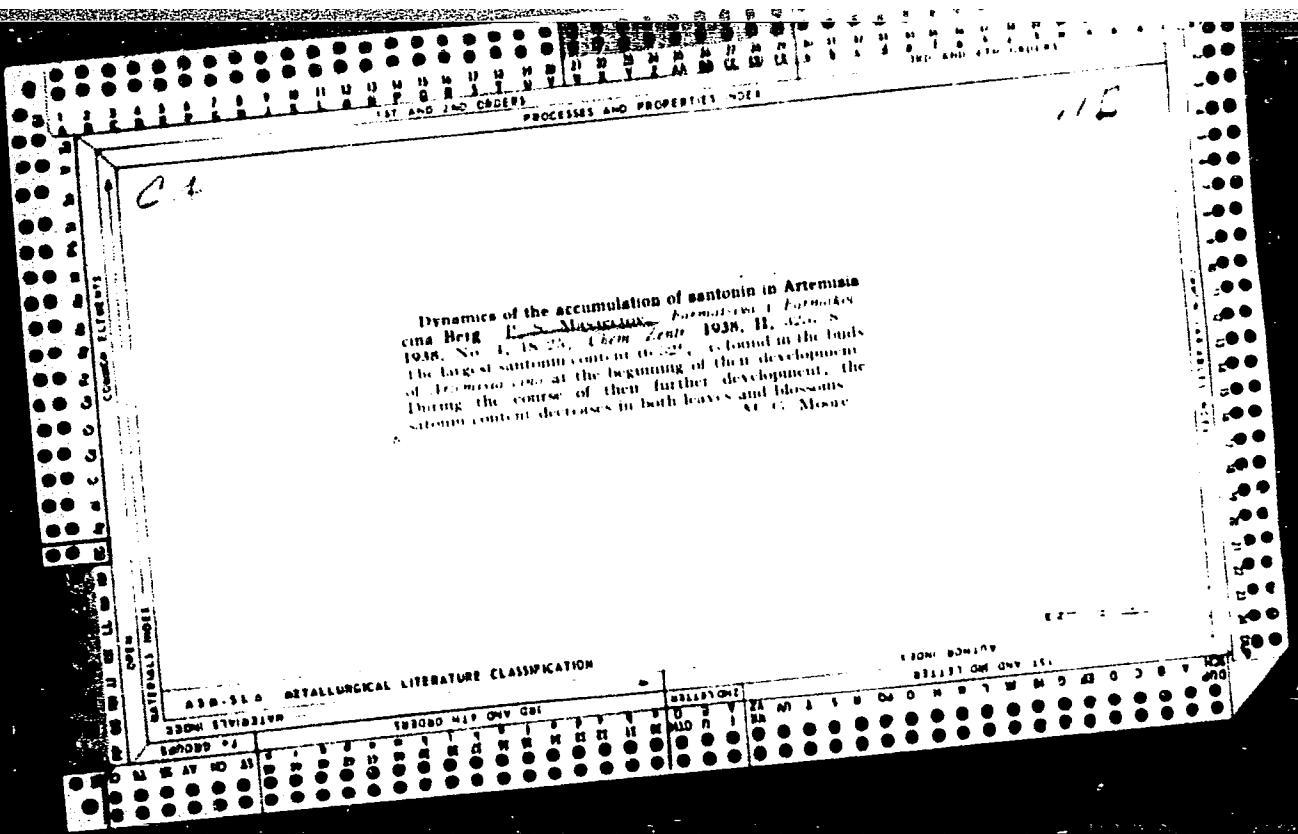
SO: Vechernaya Moskva January-December 1952

TOLMACH, D.V., kand. med. nay. (Donetsk-3, Kalinovka, ul.Yunescheskaya
18a); MASS, Ya.E.

Prevention and treatment of disorders of water-electrolyte
metabolism during operations on the stomach. Klin. khir.
(MIRA 13:8)
no.3:39-42 '65.

1. Propedevticheskaya terapevicheskaya klinika No.2 (zav. -
prof. B.D.Borevskaya) i klinika obshchey khirurgii No.2 (zav. -
dotsent Ya.D.Dmitruk) Donetskogo meditsinskogo instituta.

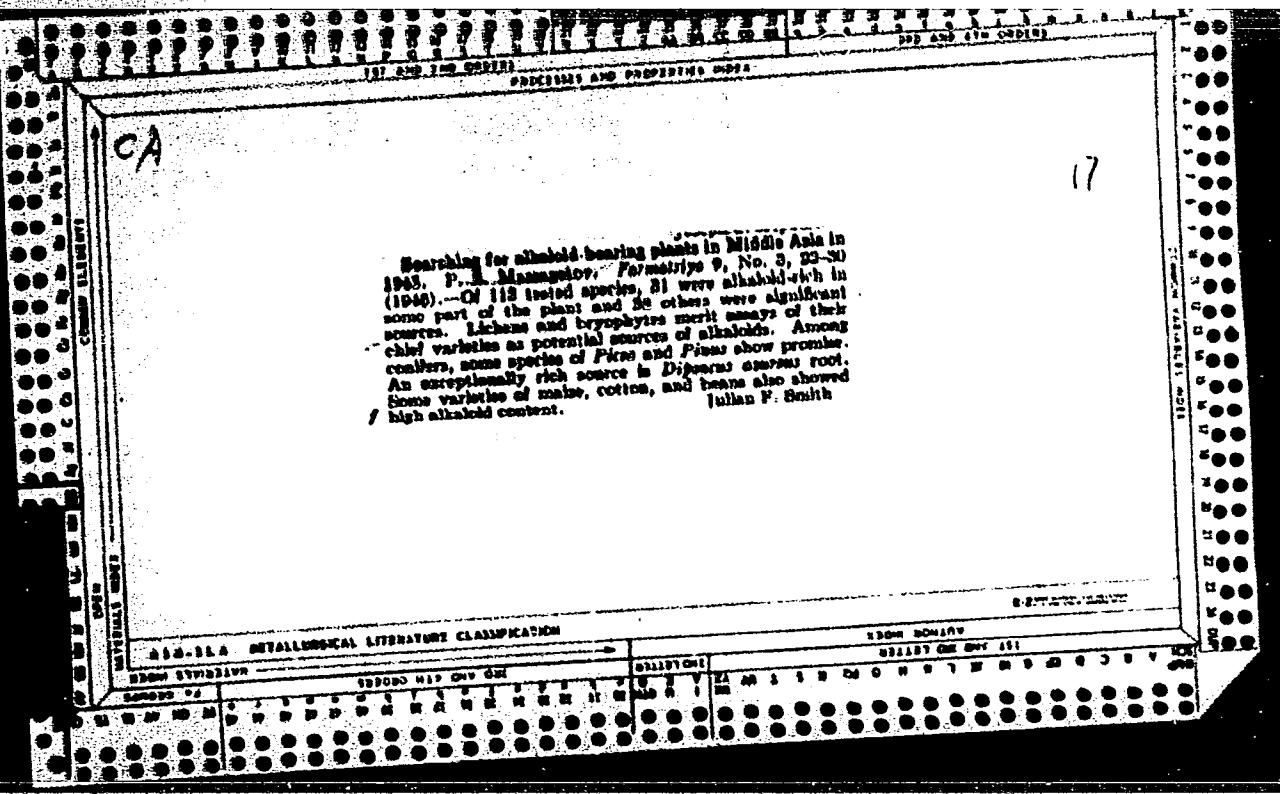
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<p><i>CJ</i></p> <p>Determination of santonin in plant materials. V. D. Balsagurov. Akad.-Prom. Press. 1932, 68-71; Chem. Zvest. 1932, II, 2004.—Triturate 5 g. of the plant material with 1 g. lime, boil 10 min. with 250 cc. water, filter immediately by suction, and wash (500 cc. nitrate). Acidify the hot filtrate with 20 cc. HCl (1.2) and shake successively with 50, 30, 20 and 20 cc. CHCl₃. Shake the CHCl₃ ext. with 50 cc. N NaOH. Treat the CHCl₃ soln. with animal charcoal, filter and evap.² Dissolve the residue in 1-2 cc. alc., add about 100 cc. boiling water and concentrate the soln. to 80-70 cc. After 16-24 hrs. filter off the santonin crystals and dry at 100-0°. Dissolve the crystals in CHCl₃, evap. the CHCl₃ and weigh the residue. The filtrate will contain about 0.0000 g. santonin per cc.</p> <p style="text-align: right;">M. G. Monroe</p> <p style="text-align: right;">17</p>																																																																																																																				
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">SECOND EDITION</th> <th colspan="10" style="text-align: center;">SECTION ONE ONLY USE</th> <th colspan="8" style="text-align: right;">EIGHT EDITION</th> </tr> <tr> <th colspan="2" style="text-align: left;">CONTINUATION</th> <th colspan="10"></th> <th colspan="8"></th> </tr> </thead> <tbody> <tr> <td>M</td><td>N</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td><td>H</td><td>I</td><td>J</td><td>K</td><td>L</td><td>M</td><td>N</td><td>O</td><td>P</td><td>Q</td><td>R</td><td>S</td><td>T</td><td>U</td><td>V</td><td>W</td><td>X</td><td>Y</td><td>Z</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td> </tr> </tbody> </table>																				SECOND EDITION		SECTION ONE ONLY USE										EIGHT EDITION								CONTINUATION																				M	N	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
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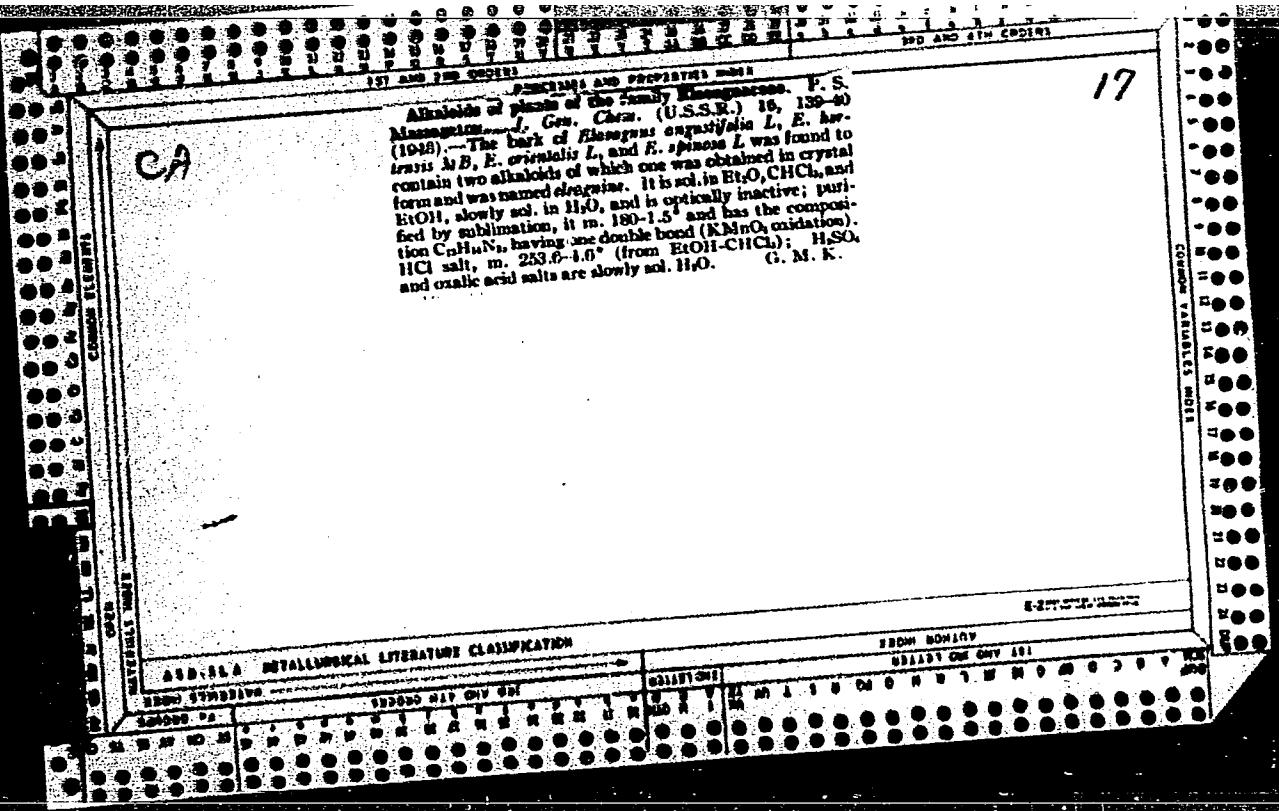


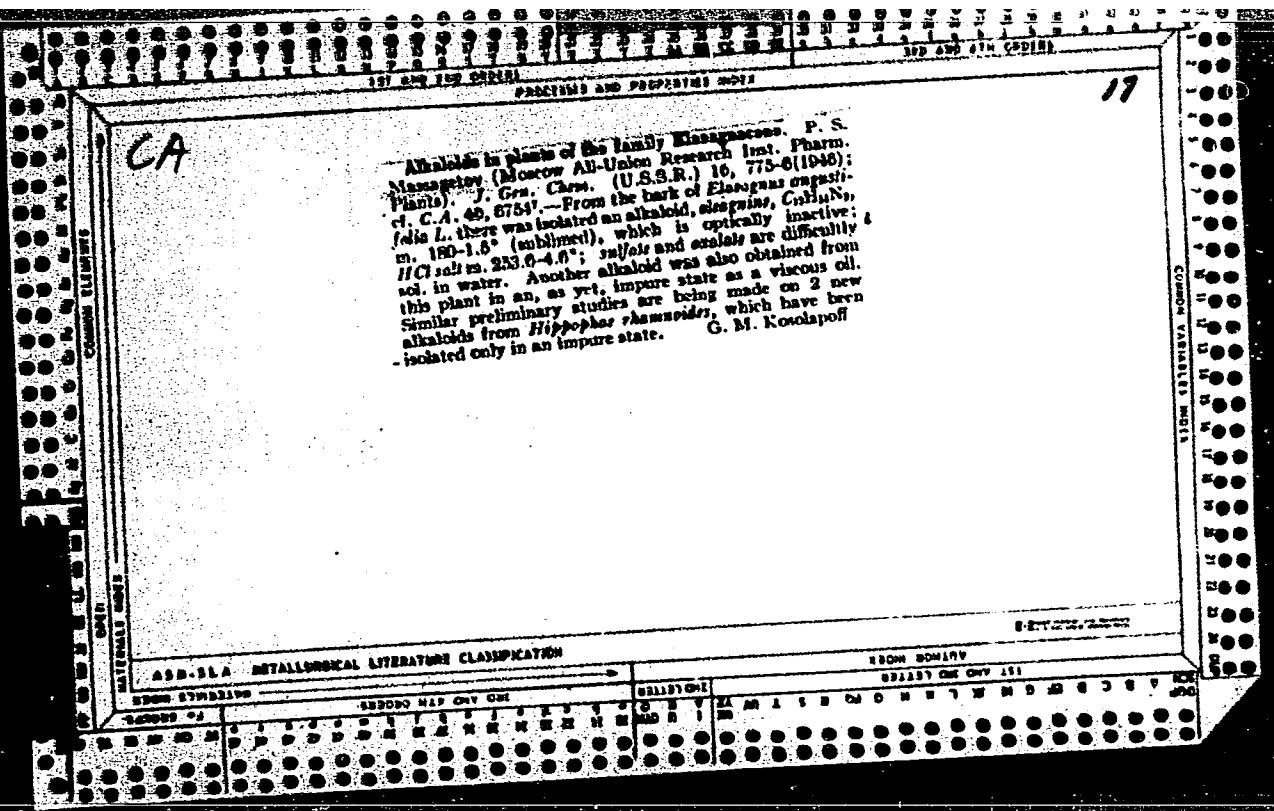
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Ephedra and ephedrine in the U. S. S. R. P. S. Masa-
glov. - Formuliya i Formchol. 1939, No. 6, 17-27; Chem.
Zentr. 1939, I, 1901.—A relatively high percentage of
ephedrine (Russian pseudophedrine) could be detected
*in the green portions of the Russian plants, *Ephedra**
**equivalvis* Bge. and *Ephedra intermedia* Schr. These*
plants, thus, deserve consideration as a practical source
M. G. Moore







MENSHIKOV, G.P.; MKNISOVA, S.O.; MASSAGETOV, P.S.

Alkaloids of *Turneforia sibirica*. I. New alkaloid turneforcin.
Zhur. Obshchey Khim. 22, 1465-7 '52.
(MLRA 5:8)
(CA 47 no.15:7512 '53)

I. S. Ordzhonikidze All-Union Chem.Pharm. Inst., Moscow.

MASSAGETOV, P.S.

Chem 5
③

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Organic Chemistry

Alkaloids of Turneforia sibirica. I. A new alkaloid,
turneforcine. G. P. Men'shikov, S. O. Denisova, and P. S.
Massagetov. J. Gen. Chem. U.S.S.R. 22, 1509-10 (1952)
(Engl. translation).—See C.A. 47, 7512c. H. L. H.

MF 1-24-54

MASSAGETOV, P.S., zavednyushchiy.

Medicinal plants. Nauka i zhizn' 20 no.4:20-22 Ap '53. (MLRA 6:5)

1. Khimiko-botanicheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze.
(Botany, Medical)

MASSAGETOV, P.S.

Chem Abs

8.48 25 Jan 54

Organic Chem

Alkaloids of Orobanchaceae. I. New alkaloid orobankamine. M. M. Reutovskii, G. P. Mezhibikov, and P. S. Massagetov (S. Ordzonikidze All-Union Chem.-Phys. Inst., Moscow). Zav. Otschitel. Khim. 23, 160 (1953).—Extr. of 1.8 kg. of upper plant parts with 10% NH₄OH-(CHCl)₃, extrn. of the org. layer with 5% H₂SO₄, washing the acid ext. with Et₂O, neutralization of the acid layer with NH₄OH and extrn. with CHCl₃ gave a solid residue, which treated with 2:1 CHCl₃-petr. ether gave 1.1 g. product, which m. 193-4° (from CHCl₃-petr. ether). The material is a new alkaloid, orobankamine, C₁₈H₂₁O₁₁N, [α]_D 33.92° (EtOH). It has no active H. G. M. K.

AK
2.10-54

1948-1953
P. S.

Chem Abstr.

V. 48 25 Jan 54

Organic Chem

✓ Alkaloids of the plant *Stizolophus balsamita*. A. D. Kuzovkov, P. S. Masalagelov, and R. I. Bogomazova (S. Ordzsonikidze All-Union Chem.-Pharm. Inst., Moscow), *Zhur. Obshchey Khim.* 23, 157-8 (1953); cf. *ibid.* 18, 1736 (1948).—Extn. of 4.6 kg. of upper plant parts is described in preceding abstr. gave 12 g. *stizolophine*, $C_9H_{12}NO$, m. 122-3° (from $CHCl_3$). Ag. solns. have pH 8.8. Solns. in dil. mineral acids are unstable and acquire red color; most of its salts are amorphous, but the *salicylate*, m. 187-8° (from Me_2CO), and the *viridiflorinate*, m. 168-9° (from Me_2CO), are cryst. The base has one NMe group; $[a]_D^{25}$ 24.6° ($EtOH$). The material has a weak pharmacologic action. *Centarrea macrocephala* yields some 0.3% mixed uncyclizable bases; *C. squarrosa* contains 0.12% mixed unknown bases. G. M. Kosolapoff.

MASSAGETOV, P. S.

Chem. Abstr.

1-47 25 Jan 54

Organic Chem.

3

Alkaloids of plants *Mariquita laevigata*. P. S. Massageto-
v, and A. D. Kuznetsov (S. Ordzhonikidze All-Union
Chem.-Pharm. Inst., Moscow). *Zhur. Obshchey Khim.* 23,
189-91(1953).—Extr. of 22 kg. of dried plant extd. as in
second preceding abstr. gave 43 g. bases insol. in H₂O and 19
g. bases sol. readily in CHCl₃. Extrn. of the former group
with Me₂CO gave 25 g. *concanine*, C₁₉H₂₁O₂N, m. 238°
(from CHCl₃). [α]_D -51.8°. Its *picrate*, m. 191°; *nitrate*,
m. 214° (from EtOH). Hydrolysis with hot Ba(OH)₂
gave the same acid, m. 148-5°, that had been obtained on
hydrolysis of platiophylline (cf. Konovalova and Orekhov,—
ibid. 8, 391(1938); Berger and Blasche, *C.A.* 30, 5005).
The acid forms the lactone, m. 155-6°. The other product
of hydrolysis is *retroserine*, m. 119-20°, [α]_D 59.0°; HCl
salt, m. 158-4°. The Me₂CO mother liquor after removal of
the above alkaloid was concd. yielding 30 g. platiophylline, m.
127-8°; *bisacrate*, m. 198-9°, [α]_D -57.5°; *picrate*, m.
197-8° (cf. Orekhov, et al., *C.A.* 29, 4010, 7689). The
H₂O-sol. bases rubbed with Me₂CO gave an unstated amt. of
a 3rd alkaloid, identified as *reserine*, m. 163-5°; *bisacrate*,
m. 201° (cf. Danilova and Konovalova, *C.A.* 45, 2900a).

Message to P.S.

4

Akridine of the plant *Sisymbrium balsamita*. A. D.

Kuraykov, P. S., Masagetov, and R. I. Boromarova
J. Gen. Chem. U.S.S.R., 27, 159-60 (1953) (Engl. translation).—See C.A. 48, 666. L. H.

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3

Alkaloids of plants *Nardosmia laevigata*. P. S. Masyagin and A. D. Kuzovkov. *J. Gen. Chem. USSR*, 23, 1015 (1953) (Engl. translation). See *C.A.* 48, 897a.
H. L. H.

APPROVED FOR RELEASE: 06/14/2000

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RECORDED

Chemical Abst.
Vol. 48
Apr. 10, 1954
Organic Chemistry

Alkaloids of plants, *Leontice eryckmannii*, I. New alkaloid jaspine and alkaloid leonidine. Preparation of leonidine and isoleonidine. T. F. Platonova, A. D. Kuznetsov, and P. S. Masmadjev. (S. Ordzhonikidze All-Union Chem. Phys. Inst., Moscow). *Zhur. Obshch. Khim.*, 31, 880 (1953). - partn. of the upper parts of *L. eryckmannii* with $(CH_3)_2CO$ in the presence of 10% NH_4OH and treatment of the ext. with 15% H_2SO_4 gave a ppt. of jaspine (I) sulfate, purified by crystn. from 10% $AcOH$; the yield was 0.18% of the plant wt. The acidic filtrate, made alk. with NH_4OH with cooling and extd. with $CHCl_3$, yielded 0.18% (on plant wt.) mixed bases as a dark oil. This (830 g.) in 500 ml. Me_2CO acidified to Congo red with alc. HCl gave 270 g. leonidine-HCl, m. 293° (from $BuOH$). The mother liquor after evapn. was dried, *in vacuo*, yielding: jaspine, isolated as the *HJ* salt, m. 233-4°; 1-jaspine (*III*), m. 189-90° (perchlorate, m. 212-13°, $[\alpha]_D^{25} -47.8^\circ$); leonidine, isolated as the picrate, m. 177-8°; and leonidine-HCl, m. 310-11°. I sulfate with 10% NH_4OH and $CHCl_3$ gave, on addn. of Me_2CO to the org. ext., the free base, $C_{18}H_{21}O_4N$ of I, m. 270°, optically inactive; methiodide monohydrate (from H_2O). Hydrolysis of I with boiling 0.1N $NaOH$ in 15 min. gave an amino acid, $C_{18}H_{21}O_4N$; probably contg. a lactone group, since on heating with dil. H_2SO_4 it forms I. I contains 2 MeO , 1 $O-CH_2-O$ and a NMe_2 groups. I sulfate, 1.0.5 H_2SO_4 , H_2O , m. 380° (from H_2O). Leonidine-HCl, m. 310-11° (from $BuOH$), with $NaOH$ gave free leonidine, $C_{18}H_{21}O_4N$, (II), m. 118-19° (from C_6H_5-BuO); $[\alpha]_D^{25} -192.2^\circ$ ($MeOH$). On hydrogenation over PtO_2 II takes up 4.2 moles H_2 , yielding an oily product, which gave the *HJ* salt, m. 219-20°, $[\alpha]_D^{25} 10.33^\circ$. This new base is $C_{18}H_{21}N_3$, leonidane (III), oil, b. 141-4°, $[\alpha]_D^{25} -7.76^\circ$ (without solvent). II therefore is not a sparteine-group alkaloid and is based on O-free III, which is a homolog of sparteine differing from it by a CH_2 group. This indicated further that leonidine is $C_{18}H_{21}O_4N$. III forms a sulfate, m. 229-30°; di-*HJ* salt, decomp. 203° perchlorate, m. 234°, $[\alpha]_D^{25} 20.65$. Isoleontine, picrat, treated with 18% HCl , washed with dil. HCl and the acidic soln. treated with $NaOH$ after removal of picric acid gave free isoleontine, $C_{18}H_{21}O_4N$, (IV), b. 175-90°, m. 107-8 (from BuO); $[\alpha]_D^{25} -78.2^\circ$ ($BuOH$). Perchlorate, decomp.

3
2/2 Platonova, T. P., et al.

202° (from H_2O); *methylidide*, decomp. 287°; *mercapto*, m. 177-8°. On hydrogenation of IV over Pt. O₂, IV took up 1.9 moles H₂ and gave an optically active product devoid of secondary N atoms, $\text{C}_{14}\text{H}_{21}\text{N}_3$, m. 77-8.5° (from Et₂O); $[\alpha]_D = -20.1^\circ$ (EtOH); *picrate*, m. 260° (with decomp.); *di-HCl salt monohydrate*, m. 308° (with sublimation); *mercapto*, decomp. 202° (from dil. EtOH). G. M. K.

Alkaloids of plants. Leontice eversmanni. I. New alkaloid taspine and alkaloid isoleontine. Preparation of leontidane and isoleontane. T. P. Platonova, A. D. Kuznetsov and P. S. Massalitinov. J. Gen. Chem. U.S.S.R. - 23, 921-6 (1953) (Engl. translation).—See C.A. 48, 8987c.

H. L. H.

MISSOURI, R.

USSR/Chemistry - Alkaloids Aug 13

"Investigation of Alkaloids of Scopolia Specie... v. I. Alkaloids from roots of S. sarracenioides," A. Danilova, ... Kovalova, P. Laccavetov, and M. Vl., All-Union Chemicopharm Inst im S. Grigor'evikaze

Zhur Otechch Khim, Vol 23, No 3, pp 141-142

Isolated two new alkaloids, sarraceniine H₂O·HCl and sarracenia N-oxide H₂O·HCl, from groundsel (Scopolia sarracenioides). Sarraceniine has a literature melting point of 210°C, and as the picrate and chloroformate ester it is a white.

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MASSAGETOV, P.

Chemical Abstracts
May 25, 1954
Organic Chemistry

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Alkaloids from *Senecio sarracenioides*. A. V. Danilova,
R. Konvalilova, P. Massagetov, and M. Garina (S. Ordz-
honiadze All-USSR Chem.-Pharm. Inst., Moscow). — The plant
Doklady Akad. Nauk S.S.R. B9, 805-0 (1953). — The plant
contains 0.8-0.9% alkaloids, which treated in the crude
state with tartaric acid gives a *biläratate*, m. 177-9°, of a
base, $C_{11}H_{12}O_4N$, m. 51-2°, $[\alpha]_D^{25} - 129.7^\circ$, isomeric with
platyphylline. The new alkaloid was named *sarracine*; it
forms a *picrate*, m. 140-1°, contains a OH but not a
methylimine grouping, decolorizes $KMnO_4$ and has an
unsatd. link. The alkaloid is an ester, as on sapon. with
alkali it yields an *amino alc.* and org. acids. The former, m.
151-2°, $[\alpha]_D^{25} - 67^\circ$, and yields a picrate, m. 184-5°, thus
identifying it as *platynecine*, obtained earlier from the
hydrolysis of platyphylline. If the alkaloids are extd. from
the plant without preliminary moistening with NH_4OH it is
possible to isolate, by extn. with $CHCl_3$, an almost neutral
substance, $C_{11}H_{10}O_4N$, m. 123-4° (from Me_2CO), $[\alpha]_D^{25} - 81.0^\circ$ (*picrate*, m. 107.5-8.6°; *chlorourate*, m. 163-5°).
Reduction of this with Zn dust yields *sarracine*. This alka-
loid thus appears to be an *N*-oxide of *sarracine*. This is con-
firmed by its formation from *sarracine* with H_2O_2 .
G. M. Kosofajoff

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MESSAGE TO U.S.

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Aconite alkaloids. II. Alkaloids of the plants of Delphinium dictyocarpum. A. D. Kuzovkov, P. S. Messageto, and M. S. Rabinovich (S. Ordzhonikidze All-Union

Khim. 23, 178-81; J. Gen. Chem. (U.S.S.R.) 25, 161-3 (1955)(Engl. translation)--Extr. of the plant with C_6H_6 in the presence of $NiCl_2$.

KUZOVKOV, A.D.; MASSAGETOV, P.S.

Study of alkaloids. Part 3. Alkaloids of the plant Aconitum orientale
Mill. Zhur. ob. khim. 25 no. 1:178-181 Ja '55. (MIRA 8:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut im. S. Ordzhonikidze.
(Alkaloids) (Aconite)

MASSAGETOV, P.

Alkaloids of *Semecio macrophyllus*. A. Danilova, L. Utkin, and P. Massagetov. (S. Ordzhonikidze All-Union Sci. Research Chem.-Pharm. Inst., Moscow). *Zhur. Obshch. Khim.* 25, 831-4; *J. Gen. Chem. U.S.S.R.* 25, 707-9 (1955) (Engl. translation). —Conventional extn. of 18 kg. dried plant with $(CH_3Cl)_2$ in the presence of 10% NH₄OH, fol. "d by extn. of the extn. with 10% H₂SO₄, liberation of the bases from the acid soln. with NH₄OH and extn. with Et₂O and CHCl₃, gave about 25 g. mixed alkaloids. The Et₂O-sol. material in EtOH was treated with alc. tartaric acid until acid reaction was reached, yielding 2.16 g. tartrate; the CHCl₃-sol. fraction of the alkaloids gave 2.76 g. tartrate. This last after cryst. from EtOH gave 2.5 g. pure *macrophylline blitarate*, $C_{19}H_{27}O_3N$, m. 182-4°, $[\alpha]_D^{25}$ 52.3° (H₂O). This with NH₄OH gave free *macrophylline* (I), $C_{19}H_{25}O_3N$, purified by sublimation in high vacuum, m. 12-4°, $[\alpha]_D^{25}$ 34.52° (EtOH). Hydrolysis with 15% HCl gave angelic acid and *macronecine-HCl*, $C_{19}H_{25}O_3N \cdot HCl$, m. 152-3°, $[\alpha]_D^{25}$ 49.37° (EtOH). The latter with NaOH gave free *macronecine*, $C_{19}H_{25}O_3N$, m. 120-2° (from Me₂CO); $[\alpha]_D^{25}$ 49.29° (EtOH), almost insol. in Et₂O. Hydrogenation of I over PtO₂ gave *hydromacrophylline*, m. 87-8°, $C_{19}H_{25}O_3N$, which heated with 10% HCl gave a liquid acid which was not identified owing to small amt., and *macronecine-HCl*, m. 180-1°. G. M. Kosolapoff

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DANILOVA, A.; UTKIN, L.; MASSAGETOV, P.

Study of alkaloids from the groundsel (*Senecio macrophyllus*). Zhur. ob. khim.
25 no.4:831-834 Ap '55. (MLRA 8:7)

1. Vsesoyuznyy Nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze. (Alkaloids) (Groundsel)

MASSAGETOY P.S.

*✓ Alkaloids of plants of the poppy family. T. P. Platonova,
P. S. Massagetoj, A. D. Kuzovkov, and L. M. Utkin
(S. Ordzhonikidze All-Union Chern.-Pharm. Sci. Re-
search Inst., Moscow). *Zhur. Obshchey Khim.* 26, 173-
80; *J. Gen. Chem. U.S.S.R.* #6, 181-6 (1958) (Engl. transla-
tion).—Conventional $\text{NH}_4\text{OH} \cdot (\text{CH}_3\text{Cl})$ treatment of 14
kg. dried roots of *Paeonia schleicheri* gave 23 g. Et_2O -sol.
alkaloids which were solid and 26 g. noncryst. material,
while 17 g. noncryst. material was extd. with CHCl_3 .
Chromatography of the 1st group in CHCl_3 over Al_2O_3
with elution by CHCl_3 -2% MeOH gave 3 g. protopine,
m. 205-6° (from the colorless zone), 0.2 g. tarry material
from the orange zone. The yellow zone gave a mixt.
which on rechromatographing with elution with CHCl_3
and MeOH gave 3 g. protopine and 2 g. *jumaridine*, yellow
solid, m. 190-1°; $C_{19}\text{H}_{21}\text{O}_3\text{N}$, which has 2 MeO and 2
MeN groups; *tartrate*, m. 217°; *di-HCl salt*, m. 213-14°;
nitrate, m. 204-5°; *methylide*, m. 247-8°. The MeOH -
sol. fractions yielded 1.2 g. *jumaramine*, $C_{19}\text{H}_{21}\text{O}_3\text{N}$, m.
223-4°, which has 2 N-Me groups; *tartrate*, m. 200°; *HBr*
salt, m. 258-80°. Similar chromatography of the noncryst.
material gave 0.78 g. *jumarinine*, $C_{19}\text{H}_{21}\text{O}_3\text{N}$, m. 189-90°
(contains 1 N-Me group) (*oxalate*, m. 213°; *HCl salt*, m.
255-7°), some protopine, and 0.3 g. *jumarine*, $C_{19}\text{H}_{21}\text{O}_3\text{N}$,
m. 157-9° (contains 1 N-Me group) (*HCl salt*, m. 224°;
HBr salt, m. 219°). Ultraviolet spectra of the new alka-
loids were exampd.; *jumaramine* apparently contains a
carbonyl group as does *jumaridine*; the latter may be the
di-Me ether of the former. Similar treatment of roots of
P. micrantha yielded protopine, *jumaramine*, and unidentified
material. Roots of *P. saffordii* gave protopine, *jumaridine*,
and the colorless chromatographic zone yielded*

Platanova, T. Mat'sa & Zolotov, P.
limonoline, $C_{18}H_{21}O_4N$, m. 189.5-1.5° (from Me_2CO), $[\alpha]_D = -44.4^\circ$ (HCl salt, m. 212°), which contains 2 MeO groups and is nonphenolic. *Papaver hybridum* gave 0.12% total alkaloids from which was isolated 0.04% pahydrine di-HBr salt, decomp. 204° (from H_2O), $[\alpha]_D = 44.8^\circ$; free base, $C_{18}H_{21}O_4N$, yellow amorphous solid (H_2 salt, decomp. 200°). *Roemeria hybrida* gave 0.8% alkaloids, from which some protopine was isolated, along with the new roemeridine, $C_{18}H_{21}O_4N$, m. 228-30° which contains HO and 3 MeO groups; HCl salt, m. 258-60°. An unknown alkaloid, m. 230°, was also found. *P. somniferum* gave 0.1% total alkaloids which yielded protopine, α -allocryptopine (m. 157-9°) and roemeridine, m. 228-8°. *Chelidonium majus* gave 0.7% total alkaloids from which were isolated (through the sulfates): sanguinarine, m. 240-2°; chelerythrine, m. 210-13°; chelidamine, $C_{18}H_{21}O_4N$, m. 204-5°, $[\alpha]_D = -318.9^\circ$ (HCl salt, m. 254-6°; methiodide, m. 275°). Some protopine was isolated from the mother liquor after removal of chelidamine from $MeOH-CHCl_3$ soln., and finally some chelidonine, m. 133°, $[\alpha]_D = 110^\circ$, $C_{18}H_{21}O_4N$, HCl salt, m. 295°.

G. M. Kosolapoff